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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

04/24/2008

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213

EXAMINER

ELALLAM, AHMED

ART UNIT PAPER NUMBER

2616

DATE MAILED: 04/24/2008

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/078.003	02/20/2002	Nahoko Takano	O68521	4722	

TITLE OF INVENTION: CELLULAR SYSTEM AND BASE STATION SPECIFICATION METHOD IN CDMA MODE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/24/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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									(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVEN	NTOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/078,003	02/20/2002			Nahoko Takano)			Q68521	4722
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nonprovisional	NO		\$1440	\$300		\$0		\$1740	07/24/2008
EXAMI	INER		ART UNIT	CLASS-SUBCLAS	s				
ELALLAM	, AHMED		2616	370-335000					
"Fee Address" indi PTO/SB/47; Rev 03-0. Number is required. 3. ASSIGNEE NAME AT PLEASE NOTE: Unlo	ո in 37 CFR 3.11. Comp	" Indicated. Use	ation form e of a Customer E PRINTED ON Telow, no assignee	or agents OR, alte (2) the name of a registered attorne; 2 registered paten listed, no name w THE PATENT (print data will appear on	single y or a t attor ill be p or typ the pa	firm (having as a gent) and the name neys or agents. If is a printed.	memb es of up no nam	er a 2ee is 3eentified below, the do	ocument has been filed for
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a. Applicant claims	cus (from status indicated s SMALL ENTITY statu	ıs. See	37 CFR 1.27.		-	-		TITY status. See 37 CF	
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/078,003	02/20/2002	Nahoko Takano	Q68521	4722	
75	90 04/24/2008	EXAMINER			
SUGHRUE, MIC	N, ZINN, MACPEA	ELALLAM, AHMED			
2100 Pennsylvania		ART UNIT	PAPER NUMBER		
Washington, DC 20	0037-3213		2616		
		DATE MAILED: 04/24/2008			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1009 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1009 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/078,003	TAKANO ET AL.			
Notice of Allowability	Examiner	Art Unit			
	AHMED ELALLAM	2616			
	AUMED ELALLAM	2010			
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate communated or state of the state of the communated or state of the communated or or other thanks or other thanks of the community	his application. If not included ication will be mailed in due cou	ırse. THIS		
1. \boxtimes This communication is responsive to <u>Amendment after fin</u>	al filed on 4/11/2008.				
2. The allowed claim(s) is/are 1-9, 12-22, and 24, respective	<u>ly renumbered 1, 6, 2-5, 7-21</u> .				
 3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		(f).			
□ Certified copies of the priority documents have		No			
3. ☐ Copies of the certified copies of the priority do		<u> </u>	from the		
International Bureau (PCT Rule 17.2(a)).	ocuments have been received	iri tilis riational stage application	i iioiii tiie		
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requir	ements		
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 			ICE OF		
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.				
(a) ☐ including changes required by the Notice of Draftsper	son's Patent Drawing Review	(PTO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or in	n the Office action of			
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			ck) of		
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 			e the		
Attachment(s)	5 Notice of Info	rmal Patant Application			
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	into lice of into interview Sur	rmal Patent Application			
	Paper No./M	ail Date			
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. ☐ Examiner's A	mendment/Comment			
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's S	tatement of Reasons for Allowa	nce		
of Biological Material	9.				
	/Chi H. Pham/ SPE, AU 2616 4/21/08				

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The prior art of records fails to teach or suggest the following:

A cellular system in a code division multiple access mode comprising (inter alias):

a base station control unit having means for notifying each base station of a plurality of base stations, in advance, of a unique information and a sequence information; and each of the base stations has means for judging whether or not each of the base stations itself is specified as the transmitting base station by creating in advance code word candidates configured to be transmitted by the mobile station based on the unique information and the sequence information and checking the code word received from a mobile station against the code word candidates, as indicated in independent claims 1, 2, 13 and 14.

A cellular system in a code division multiple access mode comprising (inter alias):

a base station control unit for assigning code words and base station identifiers that are unique information of the base stations there under and determining a predetermined base station number threshold, wherein each of the base stations is operable to check the code word transmitted from the mobile station having the radio link set up against a table created based on correspondence between the assigned

code words and the assigned base station identifiers and the base station number threshold and determine a transmitting base station, wherein the base station control unit has means for, in the case where the mobile station sets up links with the base stations equal to or exceeding the base station number threshold, duplicatively assigning a base station identifier to at least two of the base stations and notifying the base stations, in advance, of said duplicatively assigned base station identifier, the assigned code words and the base station number threshold; and each of said base stations has means for, in the case where the mobile station sets up links with the base stations equal to or exceeding the base station number threshold, judging whether or not each of the base stations itself is specified as the transmitting base station by creating in advance code word candidates configured to be transmitted by the mobile station based on the duplicatively assigned base station identifier and said base station number threshold and checking the code word received from the mobile station against the code word candidates, as indicated in independent claims 7 and 19.

A cellular system using a code division multiple access mode and comprising (inter alias):

a base station control unit having first means for notifying each base station of a maximum base station number that is a maximum number of the base stations which have the radio links set up with said mobile station; and a mobile station determining one transmitting base station or a plurality of transmitting base stations out of the base stations according to measuring results thereof, and transmitting to each base station a

code word indicating a combination of the base station identifiers of the transmitting base stations, wherein each of the base stations has means for judging whether or not each of the base stations is specified as the transmitting base station by determining judgment candidates that are the code words configured to be transmitted by the mobile station based on a predetermined order and the maximum base station number and checking the code word received from the mobile station against the judgment candidates, as indicated in independent claims 8, 9 and 12.

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A base station specification method in a cellular system using a code division multiple access mode and including a mobile station, base stations having radio links set up with the mobile station and a base station control unit assigning base station identifiers to the base stations in predetermined order, the method comprising (interalias):

notifying each base station of the maximum base station number that is the maximum number of the base stations which have the radio links set up with the mobile station, measuring reception quality of pilot signals transmitted by the base stations, determining one transmitting base station or a plurality of transmitting base stations out of the base stations according to measuring results thereof, and transmitting to each base station a code word indicating a combination of the base station identifiers of the transmitting base stations; and judging whether or not the base station is specified as the transmitting base station by determining judgment candidates that are the code words configured to be transmitted by the mobile station based on the order and the

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maximum base station number and checking the code word received from the mobile station against the judgment candidates, as indicated in independent claims 20-22.

A base station specification method in a cellular system using a code division multiple access mode and including a mobile station, base stations having radio links set up with the mobile station and a base station control unit assigning base station identifiers to the base stations having the radio links set up, the method comprising:

duplicatively assigning a base station identifier that is already assigned, transmitting to each base station of the base stations a code word indicating a combination of the base station identifiers of transmitting base stations based on measurement of signal strength; and judging whether or not each of the base stations is specified as the transmitting base station by checking the code word received from the mobile station against code words indicating combinations of the base station identifiers of the base stations, as indicated in independent claim 24.

Conclusion

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 2616

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AHMED ELALLAM whose telephone number is (571)272-3097. The examiner can normally be reached on 7-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H. Pham can be reached on (571) 272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/AHMED ELALLAM/ Examiner, Art Unit 2616 4/18/08 /Chi H Pham/ Supervisory Patent Examiner, Art Unit 2616 4/21/08